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(54) ACICULAR ELECTRICALLY CONDUCTIVE TITANIUM OXIDE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To remarkably decrease electric resistance of powder by adding a soln. of stannic chloride and a soln. of antimony chloride to an aq. suspension of high pure titanium oxide treated with acid and forming a coating layer on the surface of said titanium oxide.

CONSTITUTION: Impurity consisting of phosphorous compd. and compd. of ≤ 3 valency metal is removed from acicular titanium oxide having $1W10\mu m$ length and ≥ 3 aspect ratio by treating said titanium oxide with acid and/or alkali. Thereby, the content of phosphorous compd. is made $\leq 1wt. \%$ (calculated in term of P_2O_5) and the content of the compd. of ≤ 3 valency metal is made $\leq 0.2wt. \%$ (expressed in terms of oxide). The soln. of tin chloride and the soln. of antimony chloride are added to the aq. suspension of the high pure titanium oxide contg. $\leq 3wt. \%$ impurity. Thus, the coating layer consisting of hydrate of tin oxide and antimony oxide is formed on the surface of said high pure titanium oxide. Then, the above-mentioned titanium oxide is separated and calcined.

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